

### LEARNING OUTCOMES

- 1 Produce joined products
- 2 Know how to produce joined products

Performance evidence must be the main form of evidence gathered. You are required to provide THREE pieces of evidence that demonstrate your competence for the criteria in outcome one and ONE piece of evidence to show your essential knowledge for the criteria in outcome two.

### OUTCOME ONE

#### PRODUCE JOINED PRODUCTS

You are required to provide THREE pieces of evidence that demonstrate your competence in each criteria.

Performance evidence required You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
1 Work safely at all times, complying with health and safety, environmental and other relevant regulations and guidelines.			
2 Follow the relevant joining procedures and safety requirements to include <b>all</b> of the following: <ul style="list-style-type: none"> <li>• health and safety regulations</li> <li>• safe working practices</li> <li>• job instructions</li> <li>• joining equipment / tool operating instructions</li> <li>• company standards and procedures.</li> </ul>			
3 Prepare the surface to be joined, making sure that it is free of any defects which may affect the joining operation.			
4 Use the correct joining tools, equipment and techniques to correctly position and align the components to be joined.			

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## Unit 210

## Producing joined products

**OUTCOME ONE** *continued***PRODUCE JOINED PRODUCTS**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>5</b> Perform joining operations using <b>one</b> of the following methods: <ul style="list-style-type: none"> <li>• hand joining operations</li> <li>• manually operated machine joining operations</li> <li>• fully automated machine joining operations</li> <li>• combined joining operations.</li> </ul>			
<b>6</b> Perform the joining operation according to instructions and safe operating procedures.			
<b>7</b> Monitor and control the joining operation and identify any faults, variations or problems that occur.			
<b>8</b> Make permitted adjustments to solve production faults, variations or problems related to <b>two</b> of the following: <ul style="list-style-type: none"> <li>• quality</li> <li>• accuracy</li> <li>• material utilisation</li> <li>• operational safety</li> <li>• manufacturing changes</li> <li>• productivity.</li> </ul>			
<b>9</b> Report any problems that you cannot solve or are outside your permitted authority to the appropriate person to include <b>one</b> of the following: <ul style="list-style-type: none"> <li>• supervisor</li> <li>• team leader</li> <li>• quality control.</li> </ul>			

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**OUTCOME ONE** continued**PRODUCE JOINED PRODUCTS**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>10</b> Minimise any waste during the joining operation.			
<b>11</b> Produce joined products which comply with the joining specification and quality requirements.			
<b>12</b> Carry out checks of the joined products to include <b>all</b> of the following: <ul style="list-style-type: none"> <li>• completeness of joining operations</li> <li>• positional accuracy of product</li> <li>• joint quality and appearance</li> <li>• security of joint</li> <li>• freedom from excessive joining medium.</li> </ul>			
<b>13</b> Work to achieve your production targets <b>both</b> of the following: <ul style="list-style-type: none"> <li>• output</li> <li>• quality.</li> </ul>			
<b>14</b> Deal appropriately with finished components and complete any necessary documentation accurately and legibly.			

## Unit 210

## Producing joined products

**OUTCOME TWO****KNOW HOW TO PRODUCE JOINED PRODUCTS**

You are required to demonstrate competence in each criteria on at least ONE occasion.

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>1</b> Describe the relevant health and safety requirements of the work area in which you are carrying out the joining operations.			
<b>2</b> Explain the specific safe working practices, joining procedures and environmental regulations that need to be observed.			
<b>3</b> Explain the hazards associated with carrying out the joining operations and how they can be minimised.			
<b>4</b> Explain what actions need to be taken in case of emergencies.			
<b>5</b> Explain what personal protective equipment needs to be used during the joining activities and where can it be obtained.			
<b>6</b> Explain how to obtain the necessary job instructions, operating procedures and joining specifications that are used, and how to interpret them.			
<b>7</b> Explain what tools and equipment are used for the joining operations undertaken and how to check that they are in a safe and usable condition.			
<b>8</b> Explain the methods of surface preparation that are used in the joining operation and why they are necessary.			

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**OUTCOME TWO** *continued***KNOW HOW TO PRODUCE JOINED PRODUCTS**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>9</b> Explain how to correctly position and align the components to be joined.			
<b>10</b> Explain the specific joining operations to be performed.			
<b>11</b> Explain how to perform the joining process to achieve the required specification.			
<b>12</b> Explain why it is important to follow the specified joining sequence and procedure at all times.			
<b>13</b> Explain what methods can be used to minimise waste during joining operations.			
<b>14</b> Explain what faults, problems or variations can occur in the joining operation.			
<b>15</b> Explain how to identify faults, problems or variations in the joining operation.			
<b>16</b> Explain what allowable adjustments you can make to achieve specification in the joining operation.			
<b>17</b> Explain why it is important to report faults, variations or problems that are outside your permitted authority and or you cannot solve immediately.			
<b>18</b> Explain how to monitor and check the quality of the joined components, against the required quality standards and what tools and equipment are used.			

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## Unit 210

## Producing joined products

**OUTCOME TWO** *continued***KNOW HOW TO PRODUCE JOINED PRODUCTS**

<b>Performance evidence required</b> You must be able to:	Evidence reference number	Evidence reference number	Evidence reference number
<b>19</b> Explain what documentation may need to be completed, and why it is important to complete it accurately and legibly.			
<b>20</b> Explain what your responsibilities are with regard to the reporting lines and procedures in your working area.			
<b>21</b> Explain who the appropriate people are and what their responsibilities are within your working area.			

## Sign-off

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### CANDIDATE DECLARATION

I confirm that all the evidence submitted for this qualification is my own work.

Signature of candidate:

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Date:

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### ASSESSOR DECLARATION

I can confirm that the evidence presented is valid, authentic, current and sufficient within the context of the qualification criteria, and demonstrates the candidate's competence across the outcomes claimed.

Signature of assessor:

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Name of assessor:

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Date:

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Internal verifier signature (if sampled):

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Internal verifier name:

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Date:

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External verifier signature (if sampled):

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External verifier name:

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Date:

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